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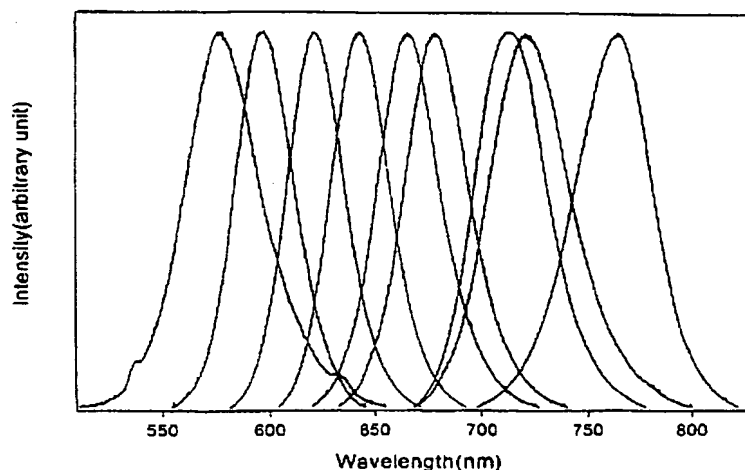
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(54) Title: TELLURIUM-CONTAINING NANOCRYSTALLINE MATERIALS



(57) Abstract: Tellurium-containing nanocrystallites are produced by injection of a precursor into a hot coordinating solvent, fol-
lowed by controlled growth and annealing. Nanocrystallites may include CdTe, ZnTe, MgTe, HgTe, or alloys thereof. The nanocrys-
tallites can photoluminesce with quantum efficiencies as high as 70 %.

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